CHANGE
NO. 2

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, DC, *31 December 1980*

Operator's, Organizational, Direct Support, General Support and Depot Maintenance Manual CENTRAL OFFICE GROUP TELEPHONE AN/MTC-10 (NSN 5805-00-908-6400)

TM 11-5805-389-15, 1 March 1967, is changed as follows:

1. Title is changed as shown above.
2. A vertical bar appears opposite changed material.
3. Remove and insert pages as indicated in the page list below:

Remove	*Insert*
None	Warnings
i and 1-0	i and 1-0
1-1 and 1-2	1-1 and 1-2
4-1 through 4-4	4-1 through 4-4
4-7 and 4-8	4-7 and 4-8
A-1	A-1

4. File this change sheet in the front of the manual for references purposes.

By Order of the Secretary of the Army:

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USAERDAA (1)
USAERDAW (1)
Army Dep (1) except
SAAD (30)
TOAD (14)
SHAD (2)
USA Dep (1)
Sig Sec USA Dep (1)
Units org under fol TOE:
29-207 (2)
29-610 (2)
29-134 (1)
29-136 (1)

NG: None
USAR: None
For explanation of abbreviations used, see AR 310-50.

WARNING

Never operate the generator or shelter until it has been properly grounded. Electrical defects in the load lines or equipment can cause DEATH BY ELECTROCUTION when contact is made with an ungrounded system. Refer to FM 11-4874/AIR FORCE T.O. 31-10-24, chapter 8, for details on protective grounding of mobile Communications-Electronic equipments.

WARNING

Adequate ventilation should be provided while using TRICHLOROTRIFLUOROETHANE. Prolonged breathing of vapor should be avoided. The solvent should not be used near heat or open flame; the products of decomposition are toxic and irritating. Since TRICHLOROTRIFLUOROETHANE dissolves natural oils, prolonged contact with skin should be avoided. When necessary, use gloves which the solvent cannot penetrate. If the solvent is taken internally, consult a physician immediately.

WARNING

Compressed air is dangerous and can cause serious bodily harm if protective means or methods are not observed to prevent a chip or particle (of whatever size) from being blown into the eyes or unbroken skin of the operator or other personnel. Compressed air shall not be used for cleaning purposes except where reduced to less than 29 p.s.i. and then only with effective chip guarding and personal protective equipment. Do not use compressed air to dry parts when trichlorotrifluoroethane has been used.

TECHNICAL MANUAL
NO. 11-5805-389-15

HEADQUARTERS
DEPARTMENT OF THE ARMY
Washington, DC, *1 March 1967*

OPERATOR'S, ORGANIZATIONAL, DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE MANUAL
CENTRAL OFFICE GROUP, TELEPHONE AN/MTC-10
(NSN 5805-00-908-6400)

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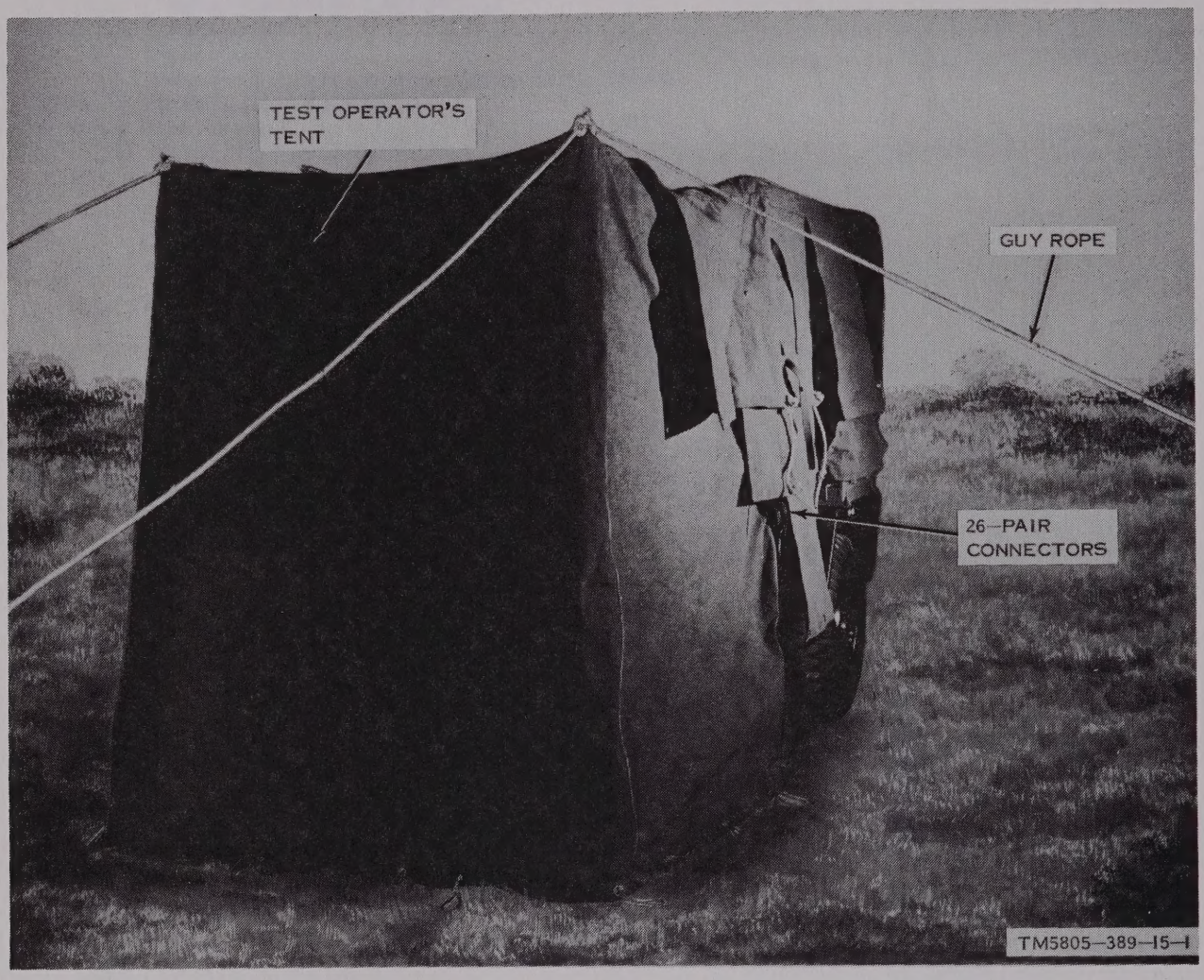

Figure 1-1. Central Office Group, Telephone AN/MTC-10, front roadside view, tarpaulin in position, test operator's tent installed.

CHAPTER 1
INTRODUCTION

Section I. GENERAL

1-1. Scope

a. This operator, organizational, direct support, general support, and depot maintenance manual describes Central Office Group, Telephone AN/MTC-10. Also included are instructions for installing, operating, and maintaining the AN/MTC-10.

b. Throughout this manual, where appropriate, references are made to other publications which cover the installation, operation, and maintenance of those equipments which are installed in the AN/MTC-10. A complete listing of applicable reference publications is provided in appendix A.

1-2. Indexes of Publications

a. DA Pam 310-4. Refer to the latest issue of DA Pam 310-4 to determine whether there are new editions, changes, or additional publications pertaining to the equipment.

b. DA Pam 310-7. Refer to DA Pam 310-7 to determine whether there are modification work orders (MWO's) pertaining to the equipment.

1-3. Maintenance Forms, Records, and Reports

a. Reports of Maintenance and Unsatisfactory Equipment. Department of the Army forms and procedures used for equipment maintenance will be those prescribed by TM 38-750, The Army Maintenance Management System.

b. Report of Item and Packaging Discrepancies. Fill out and forward SF 364 (Report of Discrepancy (ROD)) as prescribed in AR 735-11-2/DLAR 4140.55/NAVSUPINST 4440.127E/AFR 400.54/MCO 4430.E.

c. Discrepancy in Shipment Report (DISREP) (SF 361). Fill out and forward Discrepancy in Shipment Report (DISREP) (SF 361) as prescribed in AR 55-38/NAVSUPINST 4610.33B/AFR 75-18/MCO P4610.19C and DLR 4500.15.

1-3.1. Reporting Errors and Recommending Improvements

You can help improve this manual. If you find any mistakes or if you know of a way to improve the procedures, please let us know. Mail your letter or DA Form 2028 (Recommended Changes to Publications and Blank Forms), direct to: Commander, US Army Communications and Electronics Materiel Readiness Command, ATTN: DRSEL-ME-MQ, Fort Monmouth, NJ 07703. A reply will be furnished to you.

1-3.2. Reporting Equipment Improvement Recommendations (EIR)

If your Telephone Central AN/MTC-10 needs improvement, let us know. Send us an EIR. You, the user, are the only one who can tell us what you don't like about your equipment. Let us know why you don't like the design. Tell us why a procedure is hard to perform. Put it on an SF 368 (Quality Deficiency Report). Mail it to Commander, US Army Communications and Electronics Materiel Readiness Command, ATTN: DRSEL-ME-MQ, Fort Monmouth, NJ 07703. We'll send you a reply.

1-3.3. Administrative Storage

Administrative storage of equipment issued to and used by Army activities will have preventive maintenance performed in accordance with the PMCS charts before storing. When removing the equipment from administrative storage the PMCS should be performed to assure operational readiness. Disassembly and repacking of equipment for shipment or limited storage are covered in paragraphs 5-1 and 5-2.

1-3.4. Destruction of Army Electronics Materiel.

Destruction of Army electronics materiel to prevent enemy use shall be in accordance with TM 750-244-2.

Section II. DESCRIPTION AND DATA

1-4. Purpose and Use

The AN/MTC-10 (figs. 1-1 and 1-2) is an air-or-vehicular-transportable assemblage used to provide switching facilities for 120 circuits. It is used to interconnect local telephone circuits to trunk circuits and to interconnect local telephone circuit.

1-5. Technical Characteristics

Power requirements:
- AC ..... 115 volts ±10 percent, 60 cps, single-phase.
- DC ..... 24 volts.

Power consumption:
- Swivel lights (three) ..... 150 watts.
- Gasoline heater ..... 250 watts.

Lines and trunks served by switchboards ..... 120.
Priority lines ..... 6.
Type of operation (transmission) ..... Local battery.
Type of signaling ..... Magneto or common battery.
Maximum line loop resistance ..... 600 ohms.
Minimum line leakage resistance ..... 10,000 ohms.
Local communication facility ..... TA-312/PT (two).
Weight ..... 1,440 lb.
Dimensions:
- Length ..... 108 1/2 inches.

1-6. Items Comprising an Operable Equipment

FSN	*Qty*	*Nomenclature, part No. and mfr code*
		NOTE The part number is followed by the applicable 5-digit Federal supply code for manufacturers (FSCM) identified in SB 708-42 and used to identify manufacturer, distributor, or Government Agency, etc.
		NOTE Dry batteries shown are used with the equipment but are not considered part of the equipment. They will not be preshipped automatically but are to be requisitioned in quantities necessary for the particular organization in accordance with SB 11-6.
2330-706-5495	1	Trailer Cargo: 1/4-Ton, 2-Wheel, M416 (Modified)
6150-498-9130	1	Box, Junction JB-110 (Modified)
5805-538-0777	12	Box, Terminal TA-125/GT
5995-904-0685	1	Cable Assemboy, Power, Electrical: 100 ft lg
5995-889-0803	6	Cable Assembly, Telephone Stub CX-4760A/U: 15 ft lg
7110-273-8798	1	Chair, Rotary, Aluminum, Less Base and Arms
5965-669-6871		Headset-Microphone H-91A/U
		Heater Assembly, Exhaust: Consisting of the following:
	1	Pipe Coupling 1 1/4 in. dia
	2	Pipe Elbow: 1 1/4 in. dia
	1	Pipe Nipple: 1 1/4 in. dia. 6 in. lg
	1	Pipe Nipple: 1 1/4 in. dia, 21 in. lg
4520-709-9222	1	Heater, Multi-Fuel: 110 v, 60 cycle, 15,000 BTU; Hunter Mod UH-48, Type 1.
6210-908-9763	3	Fixture, Lighting: Swivelier P/N B827
5410-752-2525	2	Lead, Electrical, Ground (included in running spares)
5805-503-2616	2	Signal Assembly TA-207/P
5805-543-0012	2	Telephone Set TA-312P/T
		ACCESSORY ITEMS
6115-379-3991	1	Adapter, Fuel Can
7920-178-8315	1	Brush, Dust, Hand
	6	Cable Assembly, Special Purpose, Electrical: used for testing, plug one end marked CX-1959/U: other end with tinned tips 5 ft. 6 in. of WD-27/U cable.
7105-269-8463	2	Chair, Folding.
6645-303-4940	1	Clock, Aircraft, 8 Day.
7210-205-3545	2	Cushion, Chair & Stool.
4140-909-5321	1	Fan, Circulating: McGraw (Eskimo) PN 08105., 31246.
6230-615-5384	1	Light, Extension.
5120-227-7356	1	Screwdriver, Flat Tip: 6 in.

1-7. Description

(figs. 1-1 through 1-7)

All operating components of the AN/MTC-10 are installed in Trailer, Cargo, ¼-Ton, 2-Wheel, M416 (modified). An overhead framework fastened at each corner of the trailer body supports a tarpaulin cover to permit operation under all weather conditions. Tentpoles and an additional

tarpaulin cover are provided for the test operator's tent, which may be installed at the front of the trailer. Storage drawers and a storage area are provided in the trailer body. Exhaust pipes for the heater run along the trailer bed and exhaust out through a hole drilled in the right curbside front of the trailer. Lighting is obtained from swivel lights secured to the overhead framework. An electric fan is also mounted on the overhead framework. A gasoline heater (Model UH-48 (Type I)) is installed beneath the SB-86/P's for the switchboard operators.

1-8. Additional Equipment Required

a. The following items are needed for operating the SB-86/P's, but are not issued as part of the AN/MTC-10. They must be requisitioned separately.

Qty.	*Item*	*Equipment requirements*
16	Battery BA-30	TA-312/PT (2 ea), SB-249/P (2 ea), TA-207/P (2 ea).
4	Battery BA-2	TA-207/P (1 ea).
20	Battery BA-200/U	PP-990-G (10 ea).

b. Whenever the AN/MTC-10 is setup as a semipermanent installation, two banks of 24-volt storage batteries may be used in place of each PP-990/G.

CHAPTER 4
MAINTENANCE

Section I. OPERATOR/CREW AND ORGANIZATION MAINTENANCE

4-1. Scope of Operator/Crew and Organizational Maintenance

a. Operator/crew preventive maintenance is the systematic care, servicing, and inspection of equipment to prevent the occurrence of trouble, to reduce downtime, and to maintain the equipment in serviceable condition. To be sure that your Central Office, Telephone AN/MTC-10, is always ready for your mission, you must do scheduled preventive maintenance checks and services (PMCS).

(1) BEFORE OPERATION, perform your B PMCS to be sure that your equipment is ready to go.

(2) DURING OPERATION, perform your D PMCS. This should help you spot small troubles before they become big problems.

(3) AFTER OPERATION, perform your A PMCS. This should help you keep your equipment in top shape.

(4) WEEKLY AND MONTHLY PMCS are important checks you make to keep serious problems from suddenly happening. Perform WEEKLY as well as BEFORE OPERATION PMCS if:

(a) You are the assigned operator and have not operated the item since the last WEEKLY.

(b) You are operating the item for the first time.

(5) When an item of equipment is reinstalled after removal for any reason, perform the necessary B PMCS, paragraph 4-2, to be sure the item meets the readiness reporting criteria.

(6) Use the ITEM NO. column in the PMCS table to get the number to be used in the IM ITEM NO. column on DA Form 2404 (Equipment Inspection and Maintenance Worksheet) when you fill out the form.

b. Operator/crew routine checks like equipment inventory, cleaning, dusting, washing, checking for frayed cables, stowing items not in use, covering unused receptacles, and checking for loose nuts and bolts are not listed as PMCS checks. These checks and services are things that should be done routinely. If a routine check like one of those listed above is found in your PMCS, it was listed because other operators reported problems with this item.

c. Organization preventive maintenance procedures are designed to help maintain equipment in serviceable condition. They include what items should be checked and how to check them. These checks and services described in paragraph 4-3 outline inspections that are to be made at specific (W) Weekly, (M) Monthly, and (Q) Quarterly intervals.

WHEN YOU ARE DOING ANY PMCS OR ROUTINE CHECKS, KEEP IN MIND THE WARNINGS AND CAUTIONS.

NOTE

The PROCEDURES column in your PMCS charts instruct you how to perform the required checks and services. Carefully follow these instructions and if tools are needed or the chart instructions tell you, get organizational maintenance to do the necessary work.

If your equipment must be in operation all the time, check those items that can be checked and serviced without disturbing operation. Make the complete checks and services when the equipment can be shut down.

d. Defects that cannot be corrected must be reported to higher category maintenance personnel. Records and reports of preventive maintenance must be made in accordance with the procedures given in TM 38-750.

e. Whenever end item nomenclatured equipments are incorporated into a transportable shelter-mounted configuration, the individual equipments will be considered subsystems of the (shelter) end item nomenclature.

(TA-312/PT and SB-86/P are subsystems of the end item AN/MTC-10). Readiness reporting under this condition requires that each subsystem meet its final operational test as scheduled in the PMCS of its own technical manual. Reference to these subsystem technical manuals will be used in the Procedures column of the system PMCS; however, performance intervals will not be indicated. Intervals for subsystem PMCS tasks are indicated in the subsystem technical manuals. Maintainable items which are parts of the shelter itself will be listed and scheduled in the system technical manual. Shelter systems are considered not ready/available if mission-essential subsystems consolidated with the shelter end-item fail their individual PMCS readiness reporting criteria. (If seven subsystems are required to maintain the integrity of the mission, the system is not ready/available if one subsystem is out of service). Mission-essential subsystems are listed in the system PMCS for identification only and will have no performance interval schedules.

4-2. Operator/Crew Preventive Maintenance Checks and Services.

NOTE

The checks in the interval column are to be performed in the order listed. *Perform weekly as well as before operations PMCS if:*

1. *You are the assigned operator and have not operated the item since the last weekly.*
2. *You are operating the item for the first time.*

B — Before Operation D — During Operation W — Weekly M — Monthly

(See note above)

Item No.	Interval				Item to be inspected	Procedures	Equipment is not ready/ available if:
	B	D	W	M			
1	*				Telephone Set TA-312/PT.	Perform operational checks as described in paragraph 3-2.	Telephone Set fails to provide intelligible communications.
2	*				Switchboard SB-86/P and PP-990/G unit, including TA-207/P Signaling Assembly.	Perform the operational checks as described in paragraph 3-2.	Switchboard fails to provide reliable switching, signaling, and operator monitoring.
3	*				Dry batteries	Check the BA-200, BA-30's and all dry batteries to insure they are fresh.	Reliability of the dry cells cannot be determined or spares not available.
4		●			Battery cable and connectors. (Applicable when wet battery option is used, in lieu of PP-990/G)	Insure that cables and wiring are secured to prevent loss of battery power due to corrosion or looseness.	
5		●			Grounding	Inspect ground rods and grounding connections to insure clean-tight connections.	If telephone signals are excessively noisly. (Possible TEMPEST problem as well).
6		●			URGENT MWO's (Safety or potential equipment damage	Do not operate the equipment if an URGENT MWO has not been applied. You must check with C-E Maintenance to make sure all URGENT MWO's have been applied.	URGENT MWO's not applied.
7	*			●	Operator's shelter tent canvas	Insure that the canvas material is free of tears and the waterproofing is not worn.	Water seeps onto the communications equipment and wiring.
8					Telephone Set TA-312/PT	Perform PMCS as outlned in TM 11-5805-201-12	

*Do this check before each deployment to a mission location. This will permit any existing problems to be corrected before the mission starts. The check does not need to be done again until redeployment.

Item No.	Interval				Item to be inspected	Procedures	Equipment is not ready/ available if:
	B	D	W	M			
9					Switchboard SB-86/P and PP-990/G, Signaling Assembly.	Perform PMCS as in TM 11-4134, chapter 3.	
10					TA-125/PT Terminal box.	Perform PMCS as outlined in TM 11-4134.	
11	*			●	Storage batteries. (If used in lieu of PP-990/G)	Check water level and charge condition of batteries. Add water as needed. Insure that battery terminals are free of corrosion.	If storage batteries fail to deliver power and if backup PP-990/G is not available.

*Do this check before each deployment to a mission location. This will permit any existing problems to be corrected before the mission starts. The check does not need to be done again until redeployment.

4-3. Organizational Preventive Maintenance Checks and Services.

NOTE

The checks in the interval column are to be performed in the order listed.

W — Weekly M — Monthly Q — Quarterly

Item	Interval			Item to be inspected	Procedures
	W	M	Q		
1		●		Fire extinguishers	Inspect for missing or broken seal which indicates that extinguisher has been used. If so, refer to organizational fire department personnel for correction.
2			●	Canvas tentage	Repair and waterproof canvas tent material.
3	●			Telephone Set TA-312/PT	Perform organizational maintenance tests as required by TM 11-2155.
4	●			Switchboard SB-86/P and PP-990/G.	Perform organizational maintenance test as required by TM 11-2134 and TM 11-4134.

4-4. Organizational Repair

a. Assemblage Repair. Organizational repair of the assemblage includes —

(1) Location and correction of faults in the power and signal circuitry (figs. 4-2, 4-3, 4-4, 4-7, and 4-8).

(2) Replacement of the items listed below. (Procedures for removal and replacement are apparent upon inspection.)

(a) Ac power cable, signal cables, receptacles, and switches.

(b) Swivel light assemblies.

(c) Air circulating fan.

(d) Components.

b. Equipment Component Repair. Organizational repair procedures are authorized for the components as described in the applicable publications (app A). Organizational repair procedures for the hot line console (fig. 4-1) and dc power changeover switch (fig. 4-2) are limited to the replacement of indicator lamps, lenses, and knobs.

Section II. DIRECT AND GENERAL SUPPORT MAINTENANCE

4-5. Direct Support Maintenance

a. Trailer Facility. Direct support maintenance of the trailer includes replacement of the rear support leg assembly and the canvas tarpaulin support frame, in addition to those repairs authorized in TM 9-2330-251-14P.

b. Equipment Components. Direct support maintenance is required for the equipment components as described in the applicable publications (app A). Refer to figures 4-1 and 4-2 to make the necessary repairs of the hot line console and the dc power changeover switch.

c. Removal of 26-Pair Connectors (fig. 4-6).

(1) Loosen the setscrews and slide the locking ring back on the cable.

(2) Remove the clamping bolts and clamp nuts from the cable clamp.

(3) Remove the retaining bolts and both sections of the cable clamp.

(4) Slide the enforcement and nylon insulator back on the cable.

(5) Remove the contact assembly retaining screws.

(6) Work the cable into the housing and lift the contact assembly out of the housing.

(7) Slide the separator away from the contact assembly.

(8) Tag and disconnect the leads.

(9) Remove the separator and slide the housing off the cable.

(10) Slide the nylon insulator, enforcement, locking ring, and cover off the cable.

d. Replacement of 26-Pair Connectors (fig. 4-6).

(1) Slide the cover, locking ring, enforcement, and nylon insulator on the cable. Be sure that the flange on the enforcement and nylon insulator is towad the cable end.

(2) Slide the housing on the cable.

(3) Install the separator with the leads properly positioned.

(4) Position the contact assembly near the housing and connect the leads.

(5) Replace the contact assembly in the housing. If necessary, work the cable out of the housing to provide clearance for the contact assembly.

(6) Be sure that the contact assembly is properly seated and secure it to the connector housing with the contact assembly retaining screws.

(7) Slide the nylon insulator until its flange is flush against the housing.

(8) Slide the enforcement until its flange is flush against the nylon insulator.

(9) Replace the sections of the cable clamp and secure them with the retaining bolts.

(10) Replace the clamping bolts and nuts, and tighten them securely.

(11) Slide the locking ring into position on the housing and secure it with the setscrew.

(12) Replace the cover.

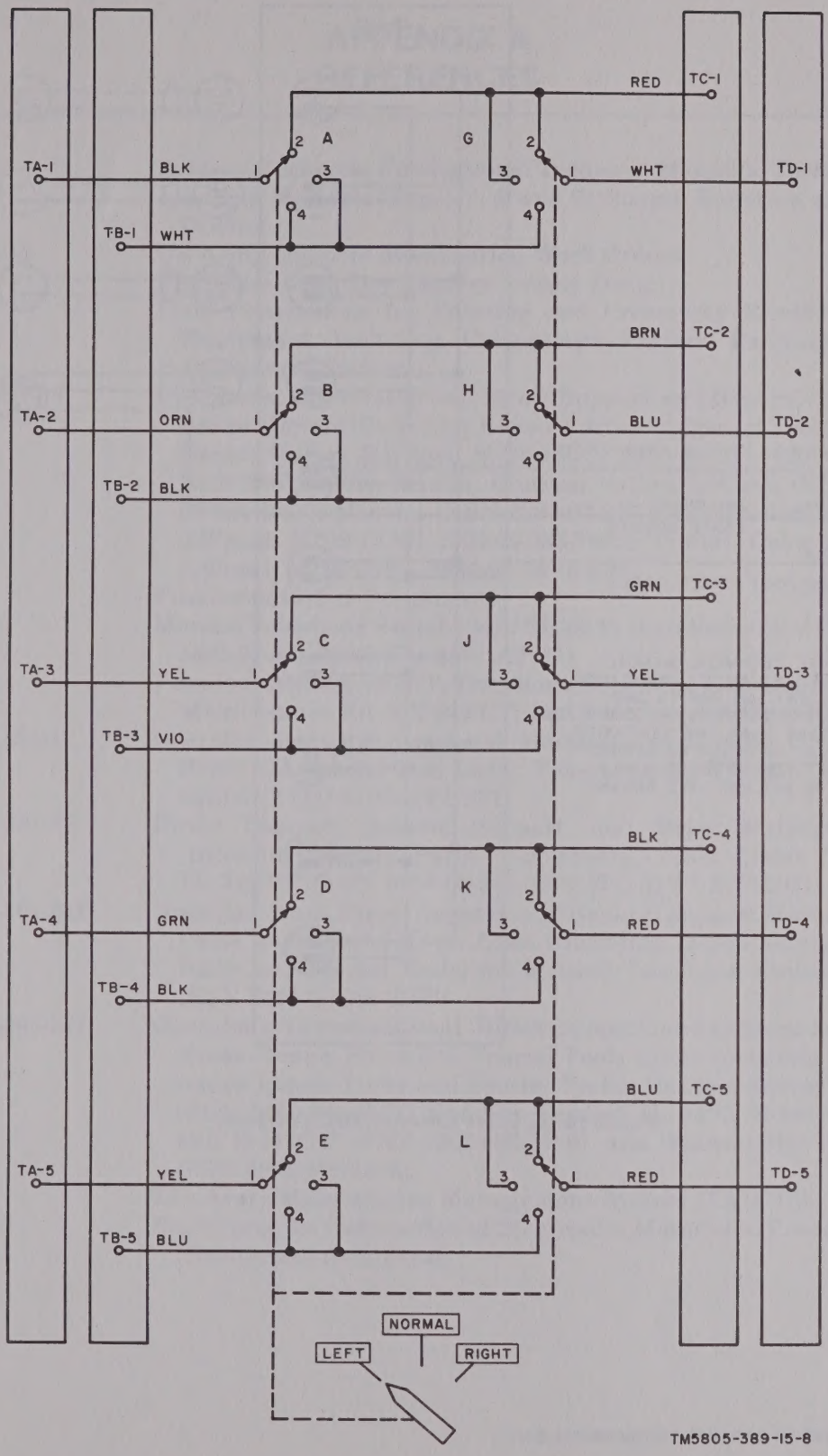

Figure 4-2. Dc power changeover switch, schematic-wiring diagram.

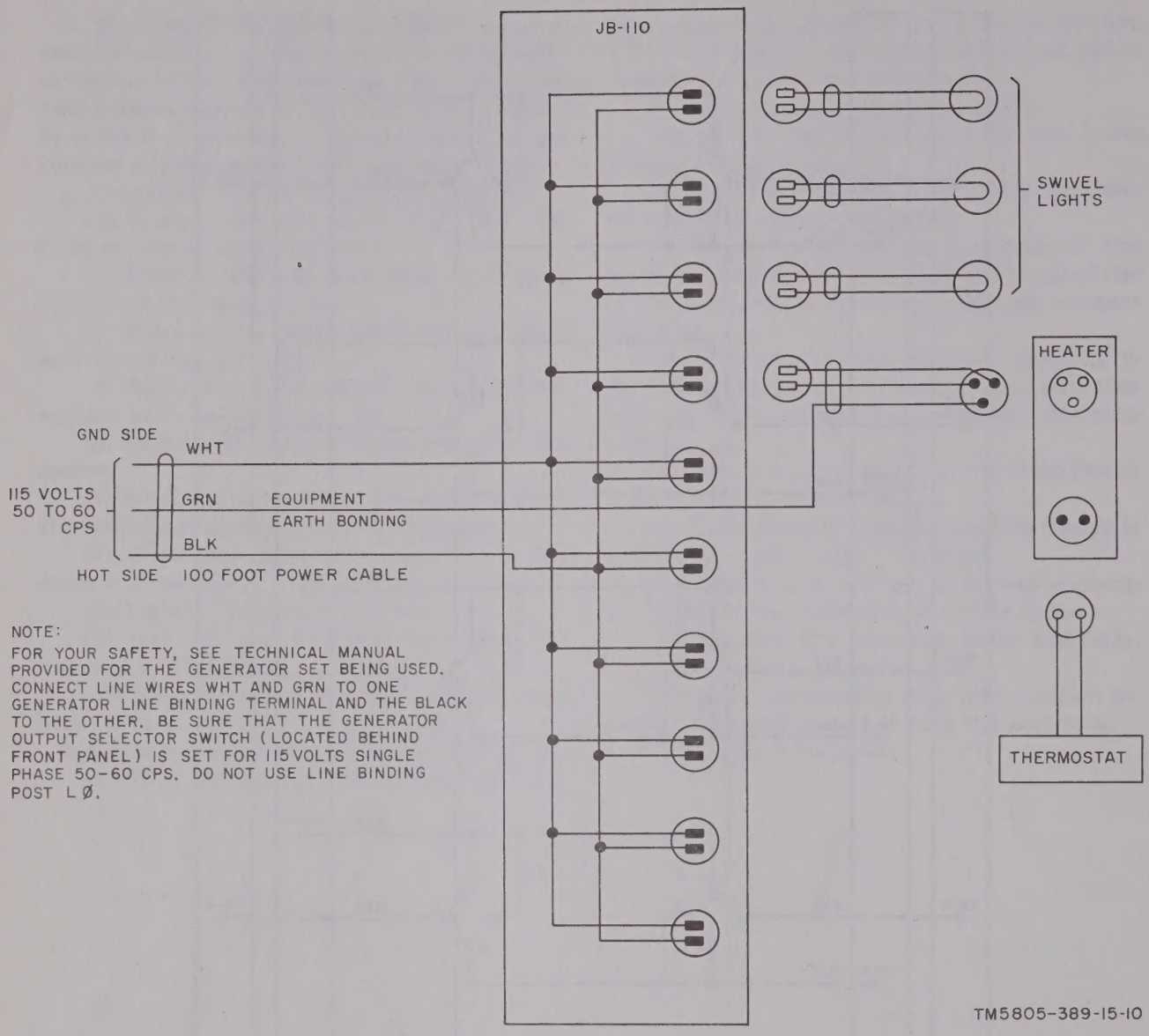

Figure 4-3. Ac power schematic-wiring diagram.

APPENDIX A
REFERENCES

DA Pam 310-4	Index of Technical Publications: Technical Manuals, Technical Bulletins, Supply Manuals (Types 7, 8, and 9), Supply Bulletins, and Lubrication Orders.
DA Pam 310-7	US Army Index of Modification Work Orders.
SB 11-6	FSC Class 6135; Dry Battery Supply Data.
TB 43-0118	Field Instructions for Painting and Preserving Electronics Command Equipment Including Camouflage Pattern Painting of Electrical Equipment Shelters.
TM 9-2330-251-14	Operator's, Organizational, Direct Support and General Support Maintenance Manual (Including Repair Parts and Special Tools Lists): Trailer, Cargo: ¼-Ton, 2-Wheel, M416 (NSN 2330-00-706-5495), M416B1 (NSN 2330-00-017-9589); Trailer, Chassis: ¼-Ton, 2-Wheel, M569 (NSN 2330-00-884-4817), M569B1 (NSN 2330-00-226-5649); Trailer, Chassis, ¾-Ton, 2-Wheel, M762 (NSN 2330-00-933-7462); Trailer, Cable Splicer: ¼-Ton, 2-Wheel, M716 (NSN 2330-00-782-6062).
TM 11-678	Fundamentals of Telephony.
TM 11-2134	Manual Telephone Switchboard SB-86/P; Installation and Operation (NSN 5805-00-503-2660) [TO 31W1-2P-11]
TM 11-2138	Terminal Box TA-125/GT; Telephone Repeating Coil Assembly TA-145/GT; Maintenance Kit MX-842/GT; and Switchboard, Signal TA-123/GT.
TM 11-5805-201-12	Operator and Organizational Maintenance Manual (Including Repair Parts and Special Tool Lists): Telephone Set TA-312/PT (NSN 5805-00-543-0012) [TO 31W1-2PT-291]
TM 11-5805-201-35	Direct Support, General Support, and Depot Maintenance Manual (Including Repair Parts and Special Tools Lists): Telephone Set TA 312/PT. (NSN 5805-00-543-0012) [TO 31W1-2PT-292]
TM 11-5805-304-24P	Organizational, Direct Support, and General Support Maintenance Repair Parts and Special Tools Lists (Including Depot Maintenance Repair Parts and Special Tools) for Manual Telephone Switchboard SB-86/P (NSN 5805-00-503-2660)
TM 11-5965-206-14P	Operator's, Organizational, Direct Support, and General Support Maintenance Repair Parts and Special Tools Lists (Including Depot Maintenance Repair Parts and Special Tools): Headset-Microphone H-91A/U; (FSN 5965-669-6871) Handset-Headset H-144/U, H-144A/U, H-144B/U, and H-144C/U (FSN 5965-682-2769); and Headset-Microphone H-210/G (FSN 5965-892-1068).
TM 38-750	The Army Maintenance Management System (TAMMS).
TM 750-244-2	Procedures for Destruction of Electronics Materiel to Prevent Enemy Use (Electronics Command).

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